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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/688,214	10/15/2003	Ivan Osorio	011738.00137	7258
	7590 08/06/200 YITCOFF, LTD.	7	EXAMINER	
TEN SOUTH WACKER DRIVE			MANUEL, GEORGE C	
SUITE 3000 CHICAGO, IL	60606		ART UNIT	PAPER NUMBER
			3762	,
			•	
			MAIL DATE	DELIVERY MODE
		•	08/06/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
	10/688,214	OSORIO ET AL.	
Office Action Summary	Examiner	Art Unit	
	George Manuel	3762	
The MAILING DATE of this communication appeariod for Reply	opears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING [- Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailinearned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI .136(a). In no event, however, may a d will apply and will expire SIX (6) MON te, cause the application to become Al	CATION. reply be timely filed VTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 27 I	November 2006.		
2a) This action is FINAL . 2b) ⊠ Th	is action is non-final.		
3) Since this application is in condition for allowed	ance except for formal mat	ters, prosecution as to the merits i	S
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.). 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-23</u> is/are pending in the application	n.		
4a) Of the above claim(s) is/are withdra			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-23</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/	or election requirement.	,	·
Application Papers		•	
9) The specification is objected to by the Examin	er.		
10) The drawing(s) filed on is/are: a) ac		by the Examiner.	
Applicant may not request that any objection to the		· ·	
Replacement drawing sheet(s) including the correct	ction is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	n priority under 35 U.S.C. §	119(a)-(d) or (f).	
1.☐ Certified copies of the priority documen	its have been received.		
2. Certified copies of the priority documen	•	pplication No	•
3. Copies of the certified copies of the price	ority documents have been	received in this National Stage	
application from the International Burea	• • • • • • • • • • • • • • • • • • • •		
* See the attached detailed Office action for a lis	t of the certified copies not	received.	
	,	·	
Attachment(s)	•		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413)	
2) Information Disclosure Statement(s) (PTO/SB/08)		s)/Mail Date nformal Patent Application	
Paper No(s)/Mail Date	6) 🗌 Other:	<u>_</u> .	

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-14 and 16-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Badura et al '234 in view of Branton (US 3,916,923).

Badura et al fails to disclose initiating a cycle ON timer that is responsive to receiving an ON command signal.

Branton teaches a "fail safe" mechanism that is tied into a circuitry and includes a timer set for a period slightly longer than the combined washing and rinse cycles. In the event of a malfunction which results in the washing or sanitizing cycle not being completed within the normal period, the timer in the fail safe circuit will time out and open the circuit to the power lines. Also, Branton teaches incorporating a 24-hour timer in an apparatus, so the sanitizing cycle will be automatically initiated at a preset time and will be completed before a dairyman reaches the barn.

One of ordinary skill in the art would have found it obvious to use the initiating cycle ON timer that is responsive to receiving the ON command signal as taught by

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Branton for providing safety in addition to the redundancy means disclosed in the device of Badura et al for ion beam therapy.

The addition of a timer and its initiator do not otherwise inhibit or limit the ability of the device disclosed in Badura et al to function with redundancy means for ensuring treatment therapy is turned off.

The beam guidance is checked by using redundancy means for a redundant termination of extraction and their functionality is checked, and checking of the ability of beam guidance dipoles in the beam guidance to connect and disconnect is carried out, wherein after an unsuccessful termination request and establishment of an ion beam, a renewed termination request is requested via a separate redundant channel and for independence from a control of an acceleration device, a special cable connection to a last dipole of the beam guidance upstream from a treatment site is provided to a power supply unit, so that a connection of this dipole can be effected only from a therapy supervisory control room via a special signal, wherein a check of connections and terminals of the therapy supervisory control room to the last dipole of the beam guidance and to the redundant channel for an additional termination of extraction is carried out prior to each block of irradiation procedures.

One of ordinary skill in the art would have found it obvious to use a timer for timing the interval between the first termination request and the second redundant request because ion beam therapy may comprise residual particle counts. Badura et al suggests that high particle counts should trigger an alarm for switching off the beam and that particle count may vary. See col. 11, lines 31-59.

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Regarding claim 4, the examiner is interpreting the disclosed medical electron accelerator disclosed in Badura et al to comprise electrical stimulation treatment therapy.

Regarding claims 5, 6, 9, 12 and 19-22, Badura et al teach loading computer programs and data sets into the control computer of the ion beam therapy system and checking for accurate loading in order to be able to correctly load data required for the irradiation of a patient into the sequence control of the system. Irradiation may commence for only correctly loaded data. Special programs in the server computers allow the supervisory control system to check that programs and data are written into the individual processors of the control computer and read back and compared with the programs and data stored in the individual memories. One of ordinary skill in the art would have found it obvious to modify the computer executable instruction to further time the interval between termination requests as discussed above for the reasons set forth above because Baura et al teach the readiness for operation of all computer programs and a possible emergency shutdown or release of an irradiation procedure by the medical operating console of the therapy system may be computer controlled.

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Strul et al '681 in view of Branton (US 3,916,923).

One of ordinary skill in the art would have found it obvious to use the initiating cycle ON timer that is responsive to receiving the ON command signal as taught by Branton for providing safety to the device disclosed in Strul et al.

Strul et al disclose software controlled limits for temperature, power, and impedance (that turn off power if exceeded), there are also redundant hardware controls, including comparators 90, 96, that turn off power if the maximum temperature or power is exceeded. One of ordinary skill in the art would have found it obvious to provide a timer for initiating the redundant hardware controls because temperature, power, and impedance have residual energy capacities that diminish with time to allow for a more accurate determination of whether they have been exceeded.

Response to Arguments

Applicant's arguments with respect to claims 1-23 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Manuel whose telephone number is (571) 272-4952.

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